ELSEVIER

Journal of Crystal Growth 143 (1994) 371–374

JOURNAL OF CRYSTAL GROWTH

Author index

Abbona, F., M. Angela-Franchini, C. Croni Bono and H.E. Lundager Madsen, Effect of ammonia excess on the crystal habit of $NiNH_4PO_4 \cdot 6H_2O$ (Ni-struvite) 143 (1994) 256
Abe, T., M. Suemitsu and N. Miyamoto, Microcrystalline diamond deposition using inert-gas curtain combustion-flame method 143 (1994) 206
Achiba, Y., see Li 143 (1994) 58
Adachi, G., see Kobayashi 143 (1994) 362
Adam, M., see Walther 143 (1994) 1
Ali, A.S.M., see Duncan 143 (1994) 155
Andersson, S., see Ericson 143 (1994) 22
Angela-Franchini, M., see Abbona 143 (1994) 256
Astier, J.P., see Lafont 143 (1994) 249

Baeumler, M., see Flemig 143 (1994) 29
Behr, T., see Möller 143 (1994) 162
Bender, G., see Flemig 143 (1994) 29
Beyersdorfer, V., see Möller 143 (1994) 162
Boistelle, R., see Lafont 143 (1994) 249
Bonardi, N., see Ramos 143 (1994) 227
Brečević, L., see Kralj 143 (1994) 269
Brenier, R., see Ramos 143 (1994) 227
Brenn, R., see Flemig 143 (1994) 29
Brunel, M., see Ramos 143 (1994) 227
Bugiel, E., see Osten 143 (1994) 194
Bürkner, S., see Flemig 143 (1994) 29

Canut, B., see Ramos 143 (1994) 227
Cave, N., see Walther 143 (1994) 1
Cockayne, B., see Lane 143 (1994) 237
Crestou, J., see Ruault 143 (1994) 40
Croni Bono, C., see Abbona 143 (1994) 256

David, J.P.R., see Roberts 143 (1994) 135
Davis, S.H., see Schulze 143 (1994) 317
Deng, H.J., see Fan 143 (1994) 354
DeVries, A.L., see Knight 143 (1994) 301
Dieckman, R., see Subramanian 143 (1994) 311
Djilali, N., see Dost 143 (1994) 141
Djilali, N., see Kimura 143 (1994) 334
Djurić, Z., see Jović 143 (1994) 176
Dost, S., Z. Qin and N. Djilali, A two-dimensional diffusion model for liquid phase electroepitaxial growth of GaAs 143 (1994) 141
Dost, S., see Kimura 143 (1994) 334
Duncan, W.J., A.S.M. Ali, E.M. Marsh and P.C. Spurdens, Metalorganic vapour phase epitaxy growth of InPAsSb alloys lattice matched to InAs 143 (1994) 155

Eberstein, W., Y. Georgalis and W. Saenger, Molecular interactions in crystallizing lysozyme solutions studied by photon correlation spectroscopy 143 (1994) 71
Ekberg, J.O., see Sardela 143 (1994) 184
Ericson, F., K. Hjort, J.-Å. Schweitz, S. Andersson and E. Janzén, Micro-scribes in semi-insulating GaAs studied by cross-sectional transmission electron microscopy 143 (1994) 22

Fan, T.W., J.B. Liang, H.J. Deng, R.G. Li, Z.G. Wang and W. Gen, Thermal stability of low-temperature-grown GaAs 143 (1994) 354
Flemig, G.W., R. Brenn, E.C. Larkins, S. Bürkner, G. Bender, M. Baeumler and J.D. Ralston, Ion-channeling studies of $In_yGa_{1-y}As/GaAs$ strained-layer single and multiple quantum-well structures 143 (1994) 29
Frank, F.C., J.W. Harris, K. Kaneko and A.R. Lang, Linear decorations defining edges of an internal octahedron within a natural diamond: observations and an explanation 143 (1994) 46
Fujiyoshi, M., see Furukawa 143 (1994) 243
Fukazawa, J., see Kubota 143 (1994) 287
Fukuda, A., see Ukita 143 (1994) 66
Fukuda, T., see Kochurikhin 143 (1994) 232
Fukuda, T., see Rudolph 143 (1994) 359
Furukawa, Y., M. Fujiyoshi, F. Nitanda, M. Sato and S. Makio, Valency control of iron in $Y_3Fe_5O_{12}$ single crystals grown by the floating zone method 143 (1994) 243

Gasgnier, M., see Ruault 143 (1994) 40
Gedridge, Jr., R.W., see Shin 143 (1994) 15
Gen, W., see Fan 143 (1994) 354
Georgalis, Y., see Eberstein 143 (1994) 71
Goronkin, H., see Walther 143 (1994) 1

Hansson, G.V., see Sardela 143 (1994) 184
Harris, I.R., see Lane 143 (1994) 237
Harris, J.W., see Frank 143 (1994) 46
Hasegawa, M., see Oyama 143 (1994) 200
Heinke, H., see Möller 143 (1994) 162
Higuchi, M., see Subramanian 143 (1994) 311
Hjort, K., see Ericson 143 (1994) 22
Hobson, W.S., J.-F. Zheng, M. Stavola and S.J. Pearton, Carbon-doped GaAs grown by organometallic vapor phase epitaxy using tris-dimethylaminoarsenic and CCl_4 143 (1994) 124
Hommel, D., see Möller 143 (1994) 162
Horiuchi, H., see Li 143 (1994) 58
Hwang, N.M. and D.K. Yoon, Thermodynamic approach to the chemical vapor deposition process 143 (1994) 103

Igarashi, O., Epitaxial growth of $CuGaSe_2$ and $CuInSe_2$ single crystals by halogen transport method using $Se(CH_3)_2$ 143 (1994) 213
Imanaka, N., see Kobayashi 143 (1994) 362
Ishikawa, K., see Ukita 143 (1994) 66

Jakšić, A., see Jović 143 (1994) 176
Janzén, E., see Ericson 143 (1994) 22
Jović, V., Z. Djurić, Z. Jakšić and M. Popović, Composition profiles of (Hg,Cd)Te liquid phase epitaxy layers grown from Te-rich solution 143 (1994) 176

Kaitasov, O., see Ruault 143 (1994) 40
Kaneko, K., see Frank 143 (1994) 46
Kang, J.M., M. Nouaoura, L. Lassabatère and A. Rocher, Accommodation of lattice mismatch and threading of dislocations in GaSb films grown at different temperatures on GaAs (001) 143 (1994) 115
Katz, J.L., see Takasaki 143 (1994) 261
Kawaguchi, K., R. Kita, M. Nishiyama and T. Morishita, Molecular beam epitaxy growth of CuO and Cu_2O films with controlling the oxygen content by the flux ratio of Cu/O^+ 143 (1994) 221
Kikuchi, K., see Li 143 (1994) 58
Kim, Y.-C. and A.S. Myerson, Diffusivity of lysozyme in undersaturated, saturated and supersaturated solutions 143 (1994) 79
Kimura, M., N. Djilali and S. Dost, Convective transport and interface kinetics in liquid phase epitaxy 143 (1994) 334
Kishio, K., see Li 143 (1994) 58
Kita, R., see Kawaguchi 143 (1994) 221
Kitazawa, K., see Li 143 (1994) 58
Kjebon, O., see Streubel 143 (1994) 7
Knight, C.A. and A.L. DeVries, Effects of a polymeric, nonequilibrium "antifreeze" upon ice growth from water 143 (1994) 301
Kobayashi, Y., N. Imanaka and G. Adachi, Flux growth of $Sc_2(WO_4)_3$ single crystals 143 (1994) 362
Kochurikhin, V.V., K. Shimamura and T. Fukuda, The influence of dopants on the interface stability during $Dy_3Ga_5O_{12}$ single crystal growth 143 (1994) 232
Koh, H.J., see Rudolph 143 (1994) 359
Komatsu, H., see Luo 143 (1994) 365
Kralj, D., L. Brečević and A.E. Nielsen, Vaterite growth and dissolution in aqueous solution. II. Kinetics of dissolution 143 (1994) 269
Kramer, G., see Walther 143 (1994) 1
Kubota, N., J. Fukazawa, H. Yashiro and J.W. Mullin, Pseudo-solubilities of potassium sulfate caused by traces of chromium(III) salts under controlled pHs 143 (1994) 287

Lafont, S., S. Veesler, J.P. Astier and R. Boistelle, Solubility and prenucleation of aprotinin (PBTI) molecules in sodium chloride solutions 143 (1994) 249
Landgren, G., see Streubel 143 (1994) 7
Landwehr, G., see Möller 143 (1994) 162
Lane, P.A., B. Cockayne, P.J. Wright, P.E. Oliver, M.E.G. Tilsley, N.A. Smith and I.R. Harris, Metalorganic chemical vapour deposition of manganese arsenide for thin film magnetic applications 143 (1994) 237
Lang, A.R., see Frank 143 (1994) 46
Larkins, E.C., see Flemig 143 (1994) 29
Lassabatère, L., see Kang 143 (1994) 115
Lee, J.H. and J.D. Verhoeven, Eutectic formation in the Ni–Al system 143 (1994) 86
Li, J., T. Mitsuki, M. Ozawa, H. Horiuchi, K. Kishio, K. Kitazawa, K. Kikuchi and Y. Achiba, Growth and morphology of C_{60} and C_{70} single crystals 143 (1994) 58
Li, R.G., see Fan 143 (1994) 354
Liang, J.B., see Fan 143 (1994) 354
Lin, C.T., Screw dislocations of $YBa_2Cu_3O_{7-\delta}$ single crystal revealed by chemical etching 143 (1994) 110
Lippmann, T., see Möller 143 (1994) 162
Lourdudoss, S., see Streubel 143 (1994) 7
Lundager Madsen, H.E., see Abbona 143 (1994) 256
Luo, H., W. Zhong, Z. Yi and H. Komatsu, Spiral step movement in an aqueous solution 143 (1994) 365

Makio, S., see Furukawa 143 (1994) 243
Marsh, E.M., see Duncan 143 (1994) 155
Matijević, see Rodríguez-Clemente 143 (1994) 277
McClean, I.P., D.M. Spink, C.B. Thomas and K. Tsakonas, Low temperature epitaxial deposition of ZnS onto (100)Si by RF magnetron sputtering and molecular beam epitaxy 143 (1994) 172

Mitsuki, T., see Li 143 (1994) 58
Miyamoto, N., see Abe 143 (1994) 206
Möller, M.O., V. Beyersdorfer, D. Hommel, T. Behr, H. Heinke, T. Lippmann and G. Landwehr, Structural characterization and interfacial studies of ZnSe based heterostructures on GaAs 143 (1994) 162
Mori, H. and M. Tachikawa, Epitaxial Si surface for GaAs heteroepitaxy 143 (1994) 349
Morishita, T., see Kawaguchi 143 (1994) 221
Mullin, J.W., see Kubota 143 (1994) 287
Murayama, H., see Ukita 143 (1994) 66
Muta, K., see Ukita 143 (1994) 66
Myerson, A.S., see Kim 143 (1994) 79

Nielsen, A.E., see Kralj 143 (1994) 269
Nishiyama, M., see Kawaguchi 143 (1994) 221
Nitanda, F., see Furukawa 143 (1994) 243
Nouaoura, M., see Kang 143 (1994) 115

Ocaña, M., see Rodríguez-Clemente 143 (1994) 277
Öhlander, U., see Streubel 143 (1994) 7
Oliver, P.E., see Lane 143 (1994) 237
Osten, H.J., H.P. Zeindl and E. Bugiel, Considerations about the critical thickness for pseudomorphic $Si_{1-x}Ge_x$ growth on Si(001) 143 (1994) 194
Oyama, Y., M. Hasegawa and H. Takei, Kinetic analysis on growth of oxide superconductor crystal $YBa_2Cu_3O_x$ 143 (1994) 200
Ozawa, M., see Li 143 (1994) 58

Parsiegla, K.I., see Takasaki 143 (1994) 261
Pearton, S.J., see Hobson 143 (1994) 124
Popović, M., see Jović 143 (1994) 176

Qin, Z., see Dost 143 (1994) 141

Radamson, H.H., see Sardela 143 (1994) 184
Ralston, J.D., see Flemig 143 (1994) 29
Ramos, S.M.M., N. Bonardi, R. Brenier, B. Canut, P. Thévénard and M. Brunel, Evidence of a new phase formation ($BaTi_4O_9$) by barium implantation into TiO_2 143 (1994) 227
Roberts, J.S., J.P.R. David, T.E. Sale and P.L. Tihanyi, High purity AlGaAs from methyl-based precursors using in situ gettering of alkoxides 143 (1994) 135
Rocher, A., see Kang 143 (1994) 115
Rodríguez-Clemente, R., C.J. Serna, M. Ocaña and E. Matijević, The relationship of particle morphology and structure of basic copper(II) compounds obtained by homogeneous precipitation 143 (1994) 277
Rogers, S., see Walther 143 (1994) 1
Ruault, M.-O., O. Kaitasov, R. Triboulet, J. Crestou and M. Gasgnier, Electron microscopy observation of phase separation in bulk $Cd_{0.96}Zn_{0.04}Te$ crystals 143 (1994) 40
Rudolph, P., K. Umetsu, H.J. Koh and T. Fukuda, Growth of twin reduced ZnSe bulk crystals from the melt 143 (1994) 359

Saenger, W., see Eberstein 143 (1994) 71
Sale, T.E., see Roberts 143 (1994) 135
Sardela, Jr., M.R., H.H. Radamson, J.O. Ekberg, J.-E. Sundgren and G.V. Hansson, Growth, electrical properties and reciprocal lattice mapping characterization of heavily B-doped, highly strained silicon-molecular beam epitaxial structures 143 (1994) 184
Sato, M., see Furukawa 143 (1994) 243
Schulze, T.P. and S.H. Davis, The influence of oscillatory and steady shears on interfacial stability during directional solidification 143 (1994) 317
Schweitz, J.-Å., see Ericson 143 (1994) 22
Serna, C.J., see Rodríguez-Clemente 143 (1994) 277
Shimamura, K., see Kochurikhin 143 (1994) 232
Shin, J., A. Verma, G.B. Stringfellow and R.W. Gedridge, Jr., Trisdimethylamino-antimony: a new Sb source for low temperature expitaxial growth of InSb 143 (1994) 15
Smith, N.A., see Lane 143 (1994) 237
Spink, D.M., see McClean 143 (1994) 172
Spurdens, P.C., see Duncan 143 (1994) 155
Stavola, M., see Hobson 143 (1994) 124
Streubel, K., J. Wallin, G. Landgren, U. Öhlander, S. Lourdudoss and O. Kjebon, Importance of metalorganic vapor phase epitaxy growth conditions for the fabrication of GaInAsP strained quantum well lasers 143 (1994) 7
Stringfellow, G.B., see Shin 143 (1994) 15
Subramanian, R., M. Higuchi and R. Dieckman, Growth of nickel aluminate single crystals by the floating zone method 143 (1994) 311
Suemitsu, M., see Abe 143 (1994) 206
Sundgren, J.-E., see Sardela 143 (1994) 184

Tachikawa, M., see Mori 143 (1994) 349
Takasaki, S., K.I. Parsiegla and J.L. Katz, Calcite growth and the inhibiting effect of iron(III) 143 (1994) 261
Takei, H., see Oyama 143 (1994) 200
Takezoe, H., see Ukita 143 (1994) 66
Tatarchenko, V.A., Cylindrical pores in a growing crystal 143 (1994) 294
Tehrani, S., see Walther 143 (1994) 1
Thévénard, P., see Ramos 143 (1994) 227
Thomas, C.B., see McClean 143 (1994) 172
Tihanyi, P.L., see Roberts 143 (1994) 135
Tilsley, M.E.G., see Lane 143 (1994) 237

Treivus, E.B., On the choice of solvent for crystallization 143 (1994) 369
Triboulet, R., see Ruault 143 (1994) 40
Tsakonas, K., see McClean 143 (1994) 172
Tsui, R., see Walther 143 (1994) 1

Ukita, T., K. Ishikawa, H. Takezoe, A. Fukuda, H. Murayama and K. Muta, Unusual crystal orientation and its control in 4-(N,N-dimethylamino)-3-acetamidonitrobenzene (DAN) in glass capillary 143 (1994) 66
Umetsu, K., see Rudolph 143 (1994) 359

Veesler, S., see Lafont 143 (1994) 249
Verhoeven, J.D., see Lee 143 (1994) 86
Verma, A., see Shin 143 (1994) 15

Wallin, J., see Streubel 143 (1994) 7
Walther, M., G. Kramer, R. Tsui, H. Goronkin, M. Adam, S. Tehrani, S. Rogers and N. Cave, Growth of GaSb/AlSb heterostructures on patterned substrates by molecular beam epitaxy 143 (1994) 1
Wang, T.Y., Lateral p–n junctions containing p-type (311)A facets in nonplanar metalorganic vapor phase epitaxy of Al GaAs lasers 143 (1994) 129
Wang, Z.G., see Fan 143 (1994) 354
Wright, P.J., see Lane 143 (1994) 237

Yashiro, H., see Kubota 143 (1994) 287
Yi, Z., see Luo 143 (1994) 365
Yoon, D.K., see Hwang 143 (1994) 103

Zeindl, H.P., see Osten 143 (1994) 194
Zheng, J.-F., see Hobson 143 (1994) 124
Zhong, W., see Luo 143 (1994) 365

ELSEVIER

Journal of Crystal Growth 143 (1994) 375–377

JOURNAL OF CRYSTAL GROWTH

Subject index

Aluminum
- antimonide 1
- gallium arsenide 129, 135
- organic 135
- antimony
- organic 15, 155
Apparatus
- for thin film growth
- - by liquid phase epitaxy
- - - using electroepitaxy
- - - - of gallium arsenide 141
- - by molecular beam epitaxy
- - - using RF magnetron sputtering
- - - - of zinc sulphide 172
- for miscellaneous purposes
- - controlling crystal axis in capillary, of Bridgman growth 66
Arsenic
- organic 124

Barium
- titanate 227

Cadmium
- iodide 365
- mercury telluride 176
- zinc telluride 40
Calcite 261
Calcium
- carbonate 261, 269
Cellular growth
- of binary alloys 317
Characterization
- by chemical etching
- - of dislocations in yttrium barium cuprate 110
- by electron microscopy
- - of lattice defects in gallium arsenide 22
- - of phase separation in cadmium zinc telluride 40
- by ion channeling
- - of quantum well structures InGaAs/GaAs 29
- by photon correlation spectroscopy
- - of lysozyme 71
Convection 317, 334
Copper
- basic compounds of 277
- gallium diselenide 213
- indium diselenide 213
- (I) oxide 221
- (II) oxide 221

Device characterization
- diodes 129
- heterojunction 129
- lasers 7, 129, 135
- quantum wells 7, 29, 135, 162
Diamond 46, 206
Diffusional control
- of binary alloy 335
Diodes, see Device characterization
Dissolution
- of binary alloy 334
- of nickel hydroxide 256
- of potassium sulphate 287
- of urea 369
- of vaterite 269
Dysprosium
- gallium garnet 232

Epitaxy, see Thin film growth
Etching
- chemical 110, 184
Eutectic growth
- of nickel–aluminum 86

Fullerenes 58

Gallium
- antimonide 1, 115
- arsenide 22, 124, 141, 349, 354
- indium arsenide phosphide 7
- organic 135
Garnets 232, 243

Heterojunction, see Device characterization
Hydrodynamics, see Convection

Ice 301
Indium
- antimonide 15
- arsenide 1

- gallium arsenide 29
- organic 155
- phosphide arsenide antimonide 155

Kinetics
- of dissolution 269
- of growth 15, 115, 141, 194, 200, 261, 334, 365
- of growth, numerical solution for 141
- of interface control 115, 301, 334
- of pore growth 294
- of twinning 359

Lasers, see Device characterization
Lasers, crystals for
- aluminum gallium arsenide 129
- gallium indium arsenide phosphide 7
Lysozyme 71, 79

Manganese
- arsenide 237
- organic 237
Melt growth technique
- by Bridgman–Stockbarger method
- - of cadmium zinc telluride 40
- - of organic crystal 66
- - of zinc selenide 359
- by Czochralski method
- - of dysprosium gallium garnet 232
- by floating zone method
- - of nickel aluminate 311
- - of yttrium iron garnet 243
- by uniaxial solidification
- - theory of 317
- theory of 294
Mercury
- cadmium telluride 176
Microgravity, growth under
- of binary alloy 334
- of lysozyme 79
Morphological stability
- of cadmium zinc telluride 40
- of directional solidification 317
- of ice 301

Nickel
- aluminate 311
- aluminum eutectic 86
- ammonium phosphate hexahydrate 256
Nucleation
- of graphite in diamond 46
- of lysozyme 71, 79
- of nickel ammonium phosphate hexahydrate 256
- of pores 294
- of protein, small 249
Numbers
- Grashof 334
- Rayleigh 334

Periodic bond chain theory
- of particle morphology, basic copper compounds 277
Phase diagrams
- of diamond 46
- of graphite 46
- of indium phosphide/indium arsenide/indium antimonide 155
- of nickel aluminate 311
- of protein, small 249
Potassium
- sulphate 287
Precursor
- for aluminum gallium arsenide 135
- for gallium arsenide 124
- for indium antimonide 15
Proteins 249
Purification of materials
- of precursors for aluminum gallium arsenide 135

Quantum wells, see Device characterization

Scandium
- tungstate 362
Selenium
- organic 213
Silicon 103, 184, 349
- carbide 103
- germanium 194
Solid growth technique
- by ion implantation
- - of barium titanate 227
Solution growth technique
- by flux method
- - of scandium tungstate 362
- - of yttrium barium cuprate 110, 200
- by low temperature method
- - of basic copper compounds 277
- - of cadmium iodide 365
- - of calcite 261
- - of lysozyme 71, 79
- - of protein, small 249
- - of vaterite 269
Superconductivity materials, high T_c
- bulk
- - of YBCO 40, 200
Surface structure
- of fullerenes 58
- of silicon 349

Thermodynamics
- of chemical vapor deposition process 103
Thin film growth, epitaxy
- by combustion-flame method
- - of diamond 206
- by liquid phase electroepitaxy
- - of gallium arsenide 141
- by liquid phase epitaxy
- - of mercury cadmium telluride 176

– – theory of 176, 334
– by molecular beam epitaxy
– – of aluminum antimonide 1
– – of copper(I) oxide 221
– – of copper(II) oxide 221
– – of gallium antimonide 1, 115
– – of gallium arsenide 354
– – of indium arsenide 1
– – of indium gallium arsenide 29
– – of silicon 184
– – of silicon germanium 194
– – of zinc selenide 162
– – of zinc sulphoselenide 162
– – theory of 194
– – using RF magnetron sputtering
– – – of zinc sulphide 172
– by vapor phase epitaxy
– – through chemical vapor deposition
– – – of copper gallium diselenide 213
– – – of copper indium diselenide 213
– – – of gallium arsenide 349
– – – of silicon 103
– – – of silicon carbide 103
– – – theory of 103
– – through metalorganic chemical vapor deposition
– – – of aluminum gallium arsenide 129, 135
– – – of gallium arsenide 124
– – – of gallium indium arsenide phosphide 7
– – – of indium antimonide 15
– – – of indium phosphide arsenide antimonide 155
– – – of manganese arsenide 237
Twinning
– of zinc selenide 359

Urea 369

Vapor growth technique
– by chemical transport
– – of silicon 103
– – of silicon carbide 103
– – theory of 103
Vaterite 269

Yttrium
– barium cuprate 110, 200
– iron garnet 243

Zinc
– selenide 162, 359
– sulphide 172
– sulphoselenide 162